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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|-----------------------|----------------------|-------------------------|------------------|--|
| 10/721,903 | 11/26/2003 | Nobuhiro Komine | 03180.0342 | 9102 | |
| 22852 7: | 22852 7590 11/16/2005 | | | EXAMINER | |
| FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413 | | | RUTLEDGE, DELLA J | | |
| | | | ART UNIT | PAPER NUMBER | |
| | | | 2851 | | |
| | | | DATE MAILED, 11/16/2006 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | |
|--|---|--------------------------------|--|--|--|
| | 10/721,903 | KOMINE, NOBUHIRO | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | D. Rutledge | 2851 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | |
| Status | | | | | |
| 1) ⊠ Responsive to communication(s) filed on 10 August 2005 and 29 September 2005. 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | |
| 4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | |
| Application Papers | | | | | |
| 9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 23 November 2003 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex | re: a)⊠ accepted or b)⊡ objected or b) objected or b) objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj | ected to. See 37 CFR 1.121(d). | | | |
| Priority under 35 U.S.C. § 119 | | , | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachment(s) 1) \(\sum \) Notice of References Cited (PTO-892) 2) \(\sum \) Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4) Interview Summary Paper No(s)/Mail Da | te | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>08/05</u> . | | atent Application (PTO-152) | | | |

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DETAILED ACTION

Request For Continued Examination

1. A Request for Continued Examination (RCE) was received on 10 August 2005.

Amendments

2. A Preliminary Amendment was received on 10 August 2005 and a Supplemental Amendment was received on 29 September 2005.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 7 11, 13 18 and 20 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7, 13 and 20 are not clearly understood. In particular in Claim 7, "a first pattern displacement between first and third monitor resist patterns: and "a second pattern displacement between second and fourth monitor resist patterns" have been described. It is not clear whether the term "between monitor resist patterns" denotes between which position and which other position. It is also not clear in reference to what the displacement is occurring. Claims 13 and 20 have similar problems.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1 – 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese reference 2000 – 310850.

The reference discloses an exposure monitor pattern formed by two window portions increasing in optical transmittance in different directions. See Figs. 14 and 18. A mask is used to make the double exposure. In order to inspect the exposure dose the monitor patterns as shown in Figs. 14 and 18 meet the limitations of claim 1 and would have been used as described by one of ordinary skill in the art.

7. Claims 12 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese Reference 200- - 319871).

The reference discloses correcting an exposure dose for the fogging exposure dose by obtaining the fogging exposure dose in an exposure method for forming a pattern by overlaying two steps of exposure and is described in paragraphs [0112 and 0115 –122].

8. Claims 7 - 11, 13 - 18 and 20 - 25 will be reexamined for patentability after the applicant's next response.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited reference are corresponding or equivalent US references for JP 2000 – 310850 and US 2001/0018153.

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Response Data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Rutledge Primary Examiner Art Unit 2851 Page 4

dr 11/14/05